

# **Calscience**



# **WORK ORDER NUMBER: 17-05-1889**

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For** 

Client: Denali Water Solutions

Client Project Name: Visalia - WM Lyles

**Attention:** Chris Marks

2001 West Key Street Colton, CA 92324-6504

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Approved for release on 05/25/2017 by: Don Burley Project Manager

ResultLink >

Email your PM >

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



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Work Order Number:	17-05-1889

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#### **Work Order Narrative**

Work Order: 17-05-1889 Page 1 of 1

#### **Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 05/24/17. They were assigned to Work Order 17-05-1889.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

#### **Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

#### **Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

#### **Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

#### **Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



#### **Sample Summary**

Client: Denali Water Solutions Work Order: 17-05-1889
2001 West Key Street Project Name: Visalia - WM Lyles
Colton, CA 92324-6504 PO Number:
Date/Time 05/24/17 11:00

Received:
Number of 6

Containers:

Attn: Chris Marks

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
1: SB#8 E	17-05-1889-1	05/23/17 13:30	1	Solid
2: SB#8 W	17-05-1889-2	05/23/17 13:35	1	Solid
3: SB#7 E	17-05-1889-3	05/23/17 13:40	1	Solid
4: SB#7 W	17-05-1889-4	05/23/17 13:50	1	Solid
5: SS E	17-05-1889-5	05/23/17 13:55	1	Solid
6: SS W	17-05-1889-6	05/23/17 14:00	1	Solid



## **Analytical Report**

Denali Water Solutions Date Received: 05/24/17 2001 West Key Street Work Order: 17-05-1889

Client Sample Number			l ah <sup>0</sup>	Sample Number		Date/Tir	ne Collected	Matrix
1: SB#8 E				5-1889-1		05/23/17		Solid
<u>Parameter</u>	Results	<u>RL</u>	<u>DF</u>	Qualifiers	<u>Units</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	Method
Solids, Total	37.5	0.100	1.00		%	05/24/17	05/24/17	SM 2540 B (M)
Total Kjeldahl Nitrogen	7900	200	20.0		mg/kg	05/24/17	05/24/17	SM 4500 N Org B (M)
Ammonia (as N)	1700	200	40.0		mg/kg	05/24/17	05/24/17	SM 4500-NH3 B/C (M)
Nitrate (as N)	ND	0.50	1.00		mg/kg	05/24/17	05/24/17	SM 4500-NO3 E/SM 4500- NO2 B
2: SB#8 W			17-0	5-1889-2		05/23/17	7 13:35	Solid
<u>Parameter</u>	<u>Results</u>	<u>RL</u>	DF	Qualifiers	<u>Units</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	Method
Solids, Total	36.3	0.100	1.00		%	05/24/17	05/24/17	SM 2540 B (M)
Total Kjeldahl Nitrogen	6900	200	20.0		mg/kg	05/24/17	05/24/17	SM 4500 N Org B (M)
Ammonia (as N)	1500	200	40.0		mg/kg	05/24/17	05/24/17	SM 4500-NH3 B/C (M)
Nitrate (as N)	ND	0.50	1.00		mg/kg	05/24/17	05/24/17	SM 4500-NO3 E/SM 4500- NO2 B
3: SB#7 E			17-0	5-1889-3		05/23/17 13:40		Solid
<u>Parameter</u>	Results	<u>RL</u>	<u>DF</u>	Qualifiers	<u>Units</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	Method
Solids, Total	23.4	0.100	1.00		%	05/24/17	05/24/17	SM 2540 B (M)
Total Kjeldahl Nitrogen	3700	200	20.0		mg/kg	05/24/17	05/24/17	SM 4500 N Org B (M)
Ammonia (as N)	1500	200	40.0		mg/kg	05/24/17	05/24/17	SM 4500-NH3 B/C (M)
Nitrate (as N)	ND	0.50	1.00		mg/kg	05/24/17	05/24/17	SM 4500-NO3 E/SM 4500- NO2 B
4: SB#7 W			17-0	5-1889-4		05/23/17	7 13:50	Solid
<u>Parameter</u>	<u>Results</u>	<u>RL</u>	DF	Qualifiers	<u>Units</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> Analyzed	Method
Solids, Total	30.8	0.100	1.00		%	05/24/17	05/24/17	SM 2540 B (M)
Total Kjeldahl Nitrogen	7000	200	20.0		mg/kg	05/24/17	05/24/17	SM 4500 N Org B (M)
Ammonia (as N)	1600	200	40.0		mg/kg	05/24/17	05/24/17	SM 4500-NH3 B/C (M)
Nitrate (as N)	ND	0.50	1.00		mg/kg	05/24/17	05/24/17	SM 4500-NO3 E/SM 4500- NO2 B
5: SS E			17-0	5-1889-5		05/23/17	7 13:55	Solid
<u>Parameter</u>	Results	<u>RL</u>	<u>DF</u>	Qualifiers	<u>Units</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	Method
Solids, Total	47.4	0.100	1.00		%	05/24/17	05/24/17	SM 2540 B (M)
Total Kjeldahl Nitrogen	9700	50	5.00		mg/kg	05/24/17	05/24/17	SM 4500 N Org B (M)
Ammonia (as N)	1100	50	10.0		mg/kg	05/24/17	05/24/17	SM 4500-NH3 B/C (M)
Nitrate (as N)	2.9	0.50	1.00		mg/kg	05/24/17	05/24/17	SM 4500-NO3 E/SM 4500- NO2 B

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

05/24/17

17-05-1889



## **Analytical Report**

**Denali Water Solutions** Date Received: 2001 West Key Street Work Order: Colton, CA 92324-6504

Project: Visalia - WM Lyles Page 2 of 2

Client Sample Number			Lab	Sample Number		Date/Tir	ne Collected	Matrix
6: SS W			17-05-1889-6			05/23/17	7 14:00	Solid
Parameter	<u>Results</u>	<u>RL</u>	DF	<u>Qualifiers</u>	<u>Units</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	Method
Solids, Total	44.3	0.100	1.00		%	05/24/17	05/24/17	SM 2540 B (M)
Total Kjeldahl Nitrogen	8500	50	5.00		mg/kg	05/24/17	05/24/17	SM 4500 N Org B (M)
Ammonia (as N)	1200	50	10.0		mg/kg	05/24/17	05/24/17	SM 4500-NH3 B/C (M)
Nitrate (as N)	0.63	0.50	1.00		mg/kg	05/24/17	05/24/17	SM 4500-NO3 E/SM 4500- NO2 B

Method Blank						N/A		Solid
Parameter	<u>Results</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>	<u>Units</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> Analyzed	Method
Solids, Total	ND	0.100	1.00		%	05/24/17	05/24/17	SM 2540 B (M)
Total Kjeldahl Nitrogen	ND	10	1.00		mg/kg	05/24/17	05/24/17	SM 4500 N Org B (M)
Ammonia (as N)	ND	5.0	1.00		mg/kg	05/24/17	05/24/17	SM 4500-NH3 B/C (M)
Nitrate (as N)	ND	0.50	1.00		mg/kg	05/24/17	05/24/17	SM 4500-NO3 E/SM 4500- NO2 B





## **Quality Control - Spike/Spike Duplicate**

 Denali Water Solutions
 Date Received:
 05/24/17

 2001 West Key Street
 Work Order:
 17-05-1889

 Colton, CA 92324-6504
 Preparation:
 N/A

 Method:
 SM 4500-NO3 E/SM 4500-NO2 B

Project: Visalia - WM Lyles Page 1 of 1

Quality Control Sample ID	Туре	Matrix	Instrumen	t Date Prepared	Date Analyzed	MS/MSD Batch Number
6: SS W	Sample	Solid	UV 7	05/24/17	05/24/17 19:47	H0524NO3S1
6: SS W	Matrix Spike	Solid	UV 7	05/24/17	05/24/17 19:47	H0524NO3S1
6: SS W	Matrix Spike Duplic	ate Solid	UV 7	05/24/17	05/24/17 19:47	H0524NO3S1
Parameter	Sample Spik Conc. Add	ed <u>MS</u>	MS MS %Rec. Co	SD MSD nc. %Rec.	%Rec. CL RPD	RPD CL Qualifiers
Nitrate (as N)	0.6255 2.50	0 3.111	99 3.1	22 100	70-130 0	0-25





## **Quality Control - Sample Duplicate**

 Denali Water Solutions
 Date Received:
 05/24/17

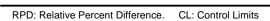
 2001 West Key Street
 Work Order:
 17-05-1889

 Colton, CA 92324-6504
 Preparation:
 N/A

 Method:
 SM 2540 B (M)

 Project: Visalia - WM Lyles
 Page 1 of 3

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
1: SB#8 E	Sample	Solid	N/A	05/24/17 00:00	05/24/17 20:00	H0524TSD3
1: SB#8 E	Sample Duplicate	Solid	N/A	05/24/17 00:00	05/24/17 20:00	H0524TSD3
<u>Parameter</u>		Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Solids, Total		37.50	38.90	4	0-10	





## **Quality Control - Sample Duplicate**

 Denali Water Solutions
 Date Received:
 05/24/17

 2001 West Key Street
 Work Order:
 17-05-1889

 Colton, CA 92324-6504
 Preparation:
 N/A

 Method:
 SM 4500 N Org B (M)

 Project: Visalia - WM Lyles
 Page 2 of 3

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
17-05-1299-1	Sample	Solid	BUR05	05/24/17 00:00	05/24/17 21:15	H0524TKND1
17-05-1299-1	Sample Duplicate	Solid	BUR05	05/24/17 00:00	05/24/17 21:15	H0524TKND1
<u>Parameter</u>		Sample Conc.	DUP Conc.	<u>RPD</u>	RPD CL	Qualifiers
Total Kjeldahl Nitrogen		14160	14250	1	0-25	





## **Quality Control - Sample Duplicate**

 Denali Water Solutions
 Date Received:
 05/24/17

 2001 West Key Street
 Work Order:
 17-05-1889

 Colton, CA 92324-6504
 Preparation:
 N/A

 Method:
 SM 4500-NH3 B/C (M)

 Project: Visalia - WM Lyles
 Page 3 of 3

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
17-05-1299-1	Sample	Solid	BUR05	05/24/17 00:00	05/24/17 20:15	H0524NH3D1
17-05-1299-1	Sample Duplicate	Solid	BUR05	05/24/17 00:00	05/24/17 20:15	H0524NH3D1
<u>Parameter</u>		Sample Conc.	DUP Conc.	<u>RPD</u>	RPD CL	Qualifiers
Ammonia (as N)		3662	3769	3	0-25	



## **Quality Control - LCS/LCSD**

 Denali Water Solutions
 Date Received:
 05/24/17

 2001 West Key Street
 Work Order:
 17-05-1889

 Colton, CA 92324-6504
 Preparation:
 N/A

 Method:
 SM 4500-NO3 E/SM 4500-NO2 B

Project: Visalia - WM Lyles Page 1 of 1

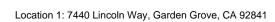
Quality Control Sample ID	Туре	Mati	rix	Instrument	Date Pre	pared Date	Analyzed	LCS/LCSD Ba	atch Number
099-12-474-951	LCS	Soli	d	UV 7	05/24/17	05/2	4/17 19:47	H0524NO3L1	
099-12-474-951	LCSD	Soli	d	UV 7	05/24/17	05/2	4/17 19:47	H0524NO3L1	
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Nitrate (as N)	2.500	2.529	101	2.540	102	80-120	0	0-20	





# **Sample Analysis Summary Report**

Work Order: 17-05-1889	Page 1 of 1			
Method	Extraction	Chemist ID	Instrument	Analytical Location
SM 2540 B (M)	N/A	1009	N/A	1
SM 4500 N Org B (M)	N/A	1067	BUR05	1
SM 4500-NH3 B/C (M)	N/A	1067	BUR05	1
SM 4500-NO3 E/SM 4500-NO2 B	N/A	650	UV 7	1





#### **Glossary of Terms and Qualifiers**

Work Order: 17-05-1889 Page 1 of 1

Qualifiers	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
В	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
Χ	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are

reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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3 5:5B#7 E	5/23/14	1:40 PM																×	
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06/02/14 Revision



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41 	Shipp	ing Document		EXPRESS (INT'L)	Shipper authorizes UPS to act as forwarding agent for export cantrol one, rustoms purpose: Shipper carnifoliasi, technology or soltware, if commodiliasi, technology or soltware, if exported from the United States, were
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Calscience

# SAMPLE RECEIPT CHECKLIST COOLER \_ \ OF \_

LIENT:	Denali	Wales		DATE: 05 / 2	<u>24</u> / <b>2017</b>
remperatui	RE: (Criteria: 0.0°C	– 6.0°C, not frozen exce	ept sediment/tissue)		

CLIENT: [	DATE: <b>05</b>	1 <u>24</u> 1	2017
TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)  Thermometer ID: SC3 (CF: 0.0°C); Temperature (w/o CF): 19.6°C (w/ CF): 19.6°C  Sample(s) outside temperature criteria (PM/APM contacted by: 15)  Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling  Sample(s) received at ambient temperature; placed on ice for transport by courier  Ambient Temperature: Air Filter	)	Sample	
CUSTODY SEAL:  Cooler ☐ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A  Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A		ed by:	
SAMPLE CONDITION:  Chain-of-Custody (COC) document(s) received with samples  COC document(s) received complete  Sampling date Sampling time Matrix Mumber of containers	🗖 🔻	No	N/A
□ No analysis requested ☑ Not relinquished ☑ No relinquished date ☑ No relinquished to Sampler's name indicated on COC  Sample container label(s) consistent with COC  Sample container(s) intact and in good condition  Proper containers for analyses requested  Sufficient volume/mass for analyses requested  Samples received within holding time  Aqueous samples for certain analyses received within 15-minute holding time  □ pH □ Residual Chlorine □ Dissolved Sulfide □ Dissolved Oxygen  Proper preservation chemical(s) noted on COC and/or sample container  Unpreserved aqueous sample(s) received for certain analyses □ Volatile Organics □ Total Metals □ Dissolved Metals  Container(s) for certain analysis free of headspace □ Volatile Organics □ Dissolved Gases (RSK-175) □ Dissolved Oxygen (SM 4500) □ Carbon Dioxide (SM 4500) □ Ferrous Iron (SM 3500) □ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation  CONTAINER TYPE:  (Trip Blank Lot Num  Aqueous: □ VOA □ VOAh □ VOAna₂ □ 100PJ □ 100PJna₂ □ 125AGB □ 125AGBh □ 12  □ 125PBznna □ 250AGB □ 250CGB □ 250CGBs □ 250PB □ 250PBn □ 500AGB □ 500A  □ 500PB □ 1AGB □ 1AGBna₂ □ 1AGBs □ 1PB □ 1PBna □ □ □ □ □ □  Solid: □ 4ozCGJ □ 8ozCGJ □ 16ozCGJ □ Sleeve ( □ ) □ EnCores® ( □ ) □ TerraCore  Air: □ Tedlar™ □ Canister □ Sorbent Tube □ PUF □ □ Other Matrix ( □ Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/  Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Lab  s = H₂SO₄, u = ultra-pure, x = Na₂SO₃+NaHSO₄.H₂O, znna = Zn (CH₃CO₂)₂ + NaOH	mber: 25AGBp	125PB AGJs  1 2 2 3 Bag ed by: 10	

2016-09-23 Revision

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## **Donald Burley**

From: Chris Marks <chrisamarks@comcast.net>
Sent: Wednesday, May 24, 2017 10:58 AM

To: Donald Burley Subject: Visalia sample

Don,

We send a sample labeled "Visalia" to you lab yesterday that will arrive today. Can you add the following tests: TKN, nitrate, ammonia?

Thanks,

Chris Marks Denali Water Solutions

Notify us here to report this email as spam.